

From the INTERNATIONAL SEARCHING AUTHORITY

 \cap

To: THOMPSON COBURN LLP Attn. Volk, Benjamin L., Jr. One US Bank Plaza

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

UNITED STATES OF AMERICA	
	(PCT Rule 44.1)
	Date of mailing (day/month/year) 18/08/2005
Applicant's or agent's file reference	
53047-48386	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/US2004/016021	(day/month/year) 21/05/2004
Applicant	
WASHINGTON UNIVERSITY	
The applicant is hereby notified that the internal Authority have been established and are transr	ational search report and the written opinion of the International Searching mitted herewith.

لكما	Authority have been established and are transmitted herewith.
	Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):
	When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.
	Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35
	For more detailed instructions, see the notes on the accompanying sheet.
2. 🗌	The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
з. 🗌	With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
	the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

KELEIVED

AUG 2 5 2005

AUG 2 5 2005



NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
53047-48386		well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US2004/016021	21/05/2004	07/04/2000
Applicant		
WASHINGTON UNIVERSITY		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Ansmitted to the International Bureau.	authority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
It is also accompanied by	a copy of each prior art document cited in the	his report.
Basis of the report With regard to the language, the i	nternational acareh was comised out on the	
language in which it was filed, unle	nternational search was carried out on the lass otherwise indicated under this item.	pasis of the international application in the
The international s	search was carried out on the basis of a trai e 23.1(b)).	nslation of the international application furnished to
b. With regard to any nucleo	tide and/or amino acid sequence disclos	ed in the international application, see Box No. I.
2. Certain claims were four	nd unsearchable (See Box II).	
3. X Unity of invention is lack	king (see Box III).	
4. With regard to the title,		
X the text is approved as sub	omitted by the applicant.	
the text has been establish	ned by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as sub	mitted by the applicant.	
the text has been establish may, within one month from	ed, according to Rule 38.2(b), by this Authon the date of mailing of this international sea	ority as it appears in Box No. IV. The applicant arch report, submit comments to this Authority.
6. With regard to the drawings ,		
•	blished with the abstract is Figure No3	9a
X as suggested by th	e applicant.	-
	Authority, because the applicant failed to su	
	Authority, because this figure better charac	terizes the invention.
b none of the figures is to be	published with the abstract.	





Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) This International Searching Authority found multiple inventions in this international application, as follows: see additional sheet As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-23 The additional search fees were accompanied by the applicant's protest. Remark on Protest No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-23

securing the decryption step

2. claims: 24-44

search acceleration

INT NATIONAL SEARCH REPORT

rnational Application No PCT/US2004/016021

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 $\,$ G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X .	EP 0 887 723 A (INTERNATIONAL BUSINESS MACHINES CORPORATION) 30 December 1998 (1998-12-30) abstract column 3, line 7 - column 8, line 18 figure 1	1-23
A	US 5 943 421 A (GRABON ET AL) 24 August 1999 (1999-08-24) abstract column 6, line 45 - line 63 column 7, line 48 - line 64 column 9, line 39 - line 50 figures 2,3b	4,11

the same of the sa	
X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 6 April 2005	Date of mailing of the international search report 1 8. 08. 2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Segura, G

4

INTENATIONAL SEARCH REPORT

PCT/US2004/016021

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	nelevant to ciaim No.
X	EP 0 880 088 A (MITSUBISHI CORPORATION) 25 November 1998 (1998-11-25) column 14, line 2 - line 58 column 15, line 19 - line 31 column 8, line 41 - column 10, line 7 figures 2,3,5	1-23

INTENTATIONAL SEARCH REPORT

national Application No PCT/US2004/016021

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0887723 A	30-12-1998	US 6009171 A CN 1337624 A CN 1205479 A EP 0887723 A HK 1042756 A JP 3053610 B JP 11088859 A JP 2000124894 A SG 77641 A TW 382092 B	2 20-01-1999 2 30-12-1998 1 22-04-2005 2 19-06-2000 30-03-1999 28-04-2000
US 5943421 A	24-08-1999	US 6538413 B US 5898290 A	1 25-03-2003 27-04-1999
EP 0880088 A	25-11-1998	JP 10326287 A EP 0880088 A	08-12-1998 2 25-11-1998